

# **Joint Non-Lethal Weapons Program**

## **Brief to the Joint Services Small Arms Symposium**



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# NLW Guiding Principals

- **Range - Beyond 100 Meters**
- **Volume of Fire**
- **Point & Area Munitions**
  - **Incapacitate Individuals / Disperse Crowds**
- **Tag / Mark Individuals – Multi Sensory**
- **Duration of Effects**
- **Focus on NL Payload versus Launching Platform**
  - **Universal Effect Desired**
- **Fire From Existing / Developmental Weapons**
- **Lightweight**
- **Joint Service / Agency Applicability**
- **Extended Shelf Life**



# NL Development / Study Efforts



**Electro Muscular  
Disruption**



**Individual Servicemans  
NL System**



**Joint NL Warning  
Munition**



**MK19 NL Short  
Range Munition**



**Pulsed Energy  
Projectile**



**Portable Active  
Denial System**



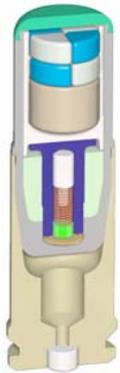
**Personnel Halting and  
Stimulation Response**



# Airburst Non-Lethal Munition (ANLM)

## 25mm Low Velocity:

- XM25 Grenade Launcher
- Minimum engagement range 40 meters
- Maximum effective range 500 meters
- Semi-automatic weapon function
- Precision electronic timed airburst fuze



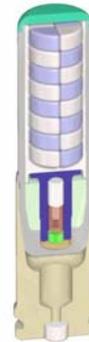
### Potential Payloads:

- Kinetic energy
- CS
- Flash-bang
- Thermobaric
- Electromuscular disruption



## 25mm High Velocity:

- Advanced Crew Served Weapon
- Minimum engagement range 100 meters
- Maximum effective range
  - 500 meters point fire
  - 1500 meters area fire
- Full-auto weapon function
- Precision electronic timed airburst fuze



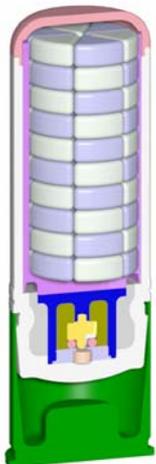
### Potential Payloads:

- Kinetic energy blunt impact
- CS
- Flash-bang
- Thermobaric
- Electromuscular disruption



## 40mm Low Velocity:

- XM-320 / M203 / M79
- Minimum engagement range 40 meters
- Maximum effective range
  - 150 meters point fire
  - 300 meters area fire
- Proximity fuze



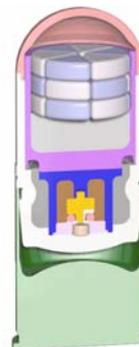
### Potential Payloads:

- Kinetic energy
- CS
- Flash-bang
- Thermobaric
- Electromuscular disruption



## 40mm High Velocity: **PROGRAM OF RECORD**

- MK19/MK47
- Minimum engagement range 40 meters
- Maximum effective range
  - 500 meters point fire
  - 1500 meters area fire
- Full-auto weapon function
- Proximity fuze



### Potential Payloads:

- Kinetic energy
- CS
- Flash-bang
- Thermobaric
- Electromuscular disruption





# Non-Lethal Mission Payload Module

## Accomplishments

- Milestone A decision, 7 Dec 04
- HMMWV – Initial Increment (MCCDC CDD in Development)
- AoA, OMS-MP & COE underway – Completion this Summer
- 15 Jun 05 – Joint Requirements IPT Meeting
- Endorsed by FCS NLW Trade Study

## Future Activities

- Engineering / Trade Studies & Assessments – Results – Jul 05
- In-Process Review with MDA, Jun 05 / MS B planned for 4QFY07
- CDD staffed for joint input prior to staffing for signature

## USMC Lead, USA, USAF, USN and USCG Interest





# OSD Non-Lethal Roadmap

- Functional Working Groups
  - JCIDS Evaluation
  - Policy
  - Legal & Treaty / Agreement / Convention Compliance
  - Family of Systems / System of Systems
  - Enabling Technologies
  - Test & Evaluation
  - Interagency (DoJ, DoS, DHS, etc...)
  - Legislative / Public Affairs
  - International Engagements



# Industry Proposals

- **BAA M67854-05-R-5009**
- **NL Science & Technology Applied Research & Technology Development Efforts**
- **[www.marcorsyscom.usmc.mil](http://www.marcorsyscom.usmc.mil)**
  - **Business Opportunities**
  - **Opportunities**
  - **Non-Lethal**